

Title (en)
Pump device

Title (de)
Fördervorrichtung

Title (fr)
Dispositif de pompe

Publication
EP 1707465 A2 20061004 (DE)

Application
EP 06111431 A 20060321

Priority
DE 102005015298 A 20050401

Abstract (en)
The device has a moveable piston provided in a receptacle to displace pressure fluids from a working chamber (5) with a non-return valve (9, 9'). The valve vents the chamber and temporarily separates a hydraulic connection between the chamber and a hydraulic channel. The non-return valve has a valve seat (11) and a valve body (12), where the valve seat is assembled from several valve seat segments (13, 14).

IPC 8 full level
B60T 8/40 (2006.01); **F04B 53/10** (2006.01)

CPC (source: EP US)
B60T 8/4031 (2013.01 - EP US); **B60T 8/4068** (2013.01 - EP US); **F04B 1/0452** (2013.01 - EP US); **F04B 53/1075** (2013.01 - EP US); **F16K 15/142** (2013.01 - EP US)

Citation (applicant)
DE 19732771 A1 19990204 - BOSCH GMBH ROBERT [DE]

Cited by
EP1810904A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2006159571 A1 20060720; US 7648350 B2 20100119; DE 102005015298 A1 20061005; DE 502006007368 D1 20100819; EP 1707465 A2 20061004; EP 1810904 A2 20070725; EP 1810904 A3 20080521; EP 1810904 B1 20100707

DOCDB simple family (application)
US 38748306 A 20060323; DE 102005015298 A 20050401; DE 502006007368 T 20060317; EP 06111298 A 20060317; EP 06111431 A 20060321